

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/827,335	04/05/2001	David E. Ewel	854.51US01	2979
7	7590 02/18/2004		EXAM	INER
MERCHANT P.O. Box 2903	C & GOULD P.C.		PEZZLO, BE	ENJAMIN A
	MN 55402-0903		ART UNIT	PAPER NUMBER
• •			3683	
			DATE MAIL ED: 02/18/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

1		Application No.	Applicant(s)	
Office Action Summary		09/827,335	EWEL, DAVID E.	
		Examiner	Art Unit	
		Benjamin A Pezzlo	3683	
Period fo	The MAILING DATE of this communicati nappor Reply	pears on the cover sheet with the c	rresp ndence address	
THE I - Exter after - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPLINATION OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	
	Responsive to communication(s) filed on <u>04 N</u>	lovember 2003.		
		action is non-final.		
3)	Since this application is in condition for alloware closed in accordance with the practice under E	nce except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 45	osecution as to the merits is 53 O.G. 213.	
Dispositi	on of Claims			
5)⊠ 6)⊠ 7)□	Claim(s) <u>1,3-10,12-21 and 23-36</u> is/are pending 4a) Of the above claim(s) is/are withdray Claim(s) <u>3,12 and 19-21</u> is/are allowed. Claim(s) <u>1,4-10,13-18 and 23-36</u> is/are rejected Claim(s) is/are objected to.	wn from consideration.		
	Claim(s) are subject to restriction and/o on Papers	or election requirement.		
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	The specification is objected to by the Examine The drawing(s) filed on is/are: a)☐ acc		Evaminor	
ا ال	Applicant may not request that any objection to the	•		
	Replacement drawing sheet(s) including the correct	•	· ·	
11)[The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	• • •	
Priority u	ınder 35 U.S.C. §§ 119 and 120			
12) \(\tag{ } \) \(\t	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list acknowledgment is made of a claim for domestince a specific reference was included in the first 7 CFR 1.78. 1 The translation of the foreign language procedures the company of the	is have been received. Is have been received in Application ity documents have been received in (PCT Rule 17.2(a)). In of the certified copies not received in priority under 35 U.S.C. § 119(a) is sentence of the specification or povisional application has been received in priority under 35 U.S.C. §§ 120	on No ed in this National Stage d. e) (to a provisional application) in an Application Data Sheet. eived. and/or 121 since a specific	
	eference was included in the first sentence of the			
Attachmen	t(s)			
1) 🛛 Notic	e of References Cited (PTO-892)	4) Interview Summarv	(PTO-413) Paper No(s)	
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal P	atent Application (PTO-152)	

Application/Control Number: 09/827,335

Art Unit: 3683

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 10, 13-18, 23, and 25-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Imoto et al. (US 4755008).

An electronically enhanced brake valve for controlling a braking output to a vehicle having at least one wheel, the brake valve comprising: (a) a primary valve assembly having an outport 144 for communicating a braking output, the primary valve assembly being configured to receive a manually controlled input that varies the braking output, the primary valve assembly including: (i) a first spool valve configured to vary the braking output according to the manually controlled input; and (b) a secondary valve assembly integral with the primary valve assembly, the secondary valve assembly being configured to receive input signals from a programmable electronic controller, the secondary valve assembly including: (i) a second spool valve configured to operate with the primary valve assembly; and (ii) an actuator configured for engaging and activating the second spool valve according to the input signals received from the programmable electronic controller such that the second spool valve modulates the braking output communicated through the outport 144 of the primary valve assembly.

Re claims 13-18, see Figs. 5 and 6 and the abstract.

Application/Control Number: 09/827,335 Page 3

Art Unit: 3683

Re claim 25, see col. 15 line 51.

Re claim 26, see solenoid 242 in Figure 6.

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this

subsection of an application filed in the United States only if the international application designated the United

States and was published under Article 21(2) of such treaty in the English language.

4. Claims 27-36 are rejected under 35 U.S.C. 102(e) as being anticipated by Lubbers et al.

(US6007160).

Lubbers et al. disclose a braking system for providing a range of braking outputs

including a pedal 18, a primary valve assembly 16 including a fluid pressure chamber 46 and a

spring 65 and a secondary valve assembly 37 and a second braking output and feedback force

corresponding to compression of the spring and force derived from the secondary valve (see col.

5 lines 1-20).

Re claims 28-36, see Fig. 1.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Application/Control Number: 09/827,335

Art Unit: 3683

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 1, 4-9, 23, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imoto et al. (US 4755008).

Imoto et al. disclose a hydraulic brake system (see Figs. 5 and 6) for supplying a braking output (230) to a vehicle having at least one wheel, the braking system including a primary valve assembly 12 configured to receive a manually controlled input 14 that varies the braking output, the primary valve assembly including a first spool valve (the spool valve is within the master cylinder 12) configured to vary the braking output according to the manually controlled input, and a secondary valve assembly 201, the secondary valve assembly being configured to receive input signals from a programmable electronic controller (ECU) the secondary valve assembly including a second spool valve 221 configured to be operated with the primary valve assembly; and an actuator (solenoid 242 and armature 245) for engaging and actuating the second spool valve according to the input signals received from the programmable electronic controller such that the second spool valve assists the braking output produced by the primary valve assembly.

Imoto et al. fail to disclose the secondary valve assembly being integral with the primary valve assembly. In *In re Larson* the court found that use of a one piece construction instead of the structure disclosed in the prior art would be merely a matter of design choice, see MPEP 2144.04.V.B. Accordingly, it would have been obvious to one of ordinary skill in the art to which the invention pertains at the time the invention was made to have provided the secondary valve assembly integrally with the primary valve assembly as merely a matter of design choice.

Re claims 4-9, see Figs. 5 and 6 and the abstract.

Re claim 23, see above rejection re claim 1.

Application/Control Number: 09/827,335 Page 5

Art Unit: 3683

Re claim 24, see above rejection re claim 1, note that a valve body for making the primary and secondary valve assemblies integral would necessarily include first and second fluid chambers defined by the primary and secondary valve assemblies, respectively.

Allowable Subject Matter

7. Claims 3, 12, 19, 20, 21 are allowed.

Response to Arguments

8. Applicant's arguments filed 28 July 2003 have been fully considered but they are not persuasive.

Re claim 10, the claim language primary valve assembly reads on the schematic representation of the Imoto device shown in Fig. 5, specifically, the assembly includes a common outport.

Applicant's arguments with respect to claims 27-36 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Benjamin A Pezzlo whose telephone number is (703) 306-4617. The examiner can normally be reached on M-F 9-5.

Application/Control Number: 09/827,335

Art Unit: 3683

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack Lavinder can be reached on (703) 308-3421. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9326.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1113.

BAP February 10, 2004

Benjamin A Pezzlo Examiner Art Unit 3683